

Laurel Message

From: Taft.PA Date: 24 March 1980 5:23 pm PST
(Monday)
Subject: Bug in 3K CRAM
To: Orr, Overton, Quarterman, Winfield, Mann, Burns

XEROX

The new batch of 3K CRAM boards have an error on them. There is a jumper wire from A61-5 to A60-8 (p. 3 of fabrication instructions) that should not be there. It causes flakey Ethernet behavior on some machines. I found this error during the last round of debugging, but SPG failed to delete this jumper from the fabrication instructions, so it is likely that any boards you have received to date contain this error.

Ed

cc: Blanchard.WBST
DMurray.WBST
Taft

**REWORK INSTRUCTION FOR CONTROL MODULE WITH 3K CRAM.
(REFER TO FIGURE1)**

CUT ETCH TO FEED THROUGH P2-14 (ETCH SIDE)
CUT ETCH TO FEED THROUGH P2-12 (ETCH SIDE)
CUT ETCH BETWEEN U51-8 AND U51-7 (ETCH)
CUT ETCH TO U70-10 (ETCH SIDE)

ADD JUMPER FROM U37-12 TO U37-7 (ETCH)
ADD JUMPER FROM U51-7 TO U39-3 (ETCH)
ADD JUMPER FROM U68-9 TO FEED THROUGH P2-14 (ETCH SIDE)
ADD JUMPER FROM U68-12 TO FEED THROUGH P2-12 (ETCH SIDE)
ADD JUMPER FROM U25-11 TO FEED THROUGH P3-7 (ETCH SIDE)
ADD JUMPER FROM U25-3 TO FEED THROUGH P3-8 (ETCH SIDE)
ADD JUMPER FROM U25-4 TO FEED THROUGH P3-9 (ETCH SIDE)
ADD JUMPER FROM U25-6 TO FEED THROUGH P3-10 (ETCH SIDE)

REPLACE U51 WITH SW3K PROM (82S126)

ETCH SIDE

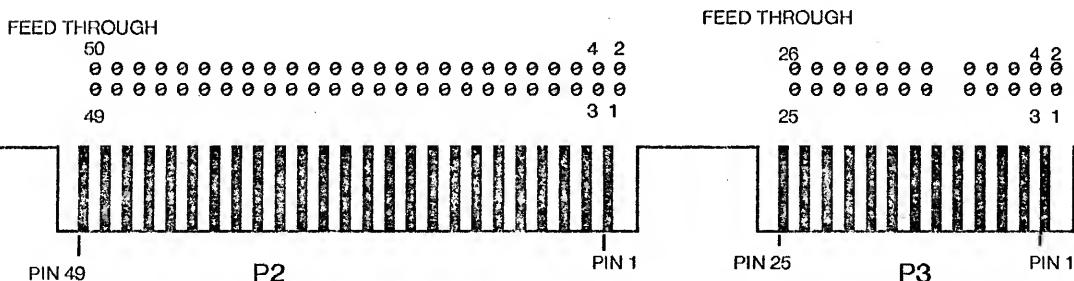


FIGURE 1

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		Dwg. No.	Rev. A

Revisions

LAL	Rev	Description	Chk	Date	Approved
A	A	ENRG REL			
	B	ENRG REL		1/24/80	PAE
	C			3/1/80	WAKIDA

ISIS<PAE>DRAWINGS>2178120-C.SIL

Dist Code

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	1. Tolerances .xx +.03 .xxx +.010	Angular +1/2°	Check
	2. Break All Sharp Edges .010 Approx	—	Appr.
	3. Mach. Surfaces	✓	Material
	4. All Dim. In Inches		ASSEMBLY, PRINTED WIRING- 3K CRAM
Model No. First Use	Finish	Code Ident 18338	Size A
Next Assy. First Use	File 3KCRAM01.SIL	Scale	Dwg. No. 217812
			Change Letter C
			Do Not Scale Drawing
			Sheet
			1 OF 16

NOTE: UNLESS OTHERWISE SPECIFIED.

1. FABRICATE PER XEROX SPEC 209454.

2. CUT ETCH PER INSTRUCTIONS.

A. CUT ALL ETCHE LEADING TO

A52-11	ONE CUT	(ETCH SIDE)
A49-11	TWO CUTS	(ETCH SIDE)
A50-11	TWO CUTS	(ETCH SIDE)
A62-11	TWO CUTS	(COMP & ETCH)
A63-11	TWO CUTS	(COMP & ETCH)
A65-11	TWO CUTS	(COMP & ETCH)
A75-11	TWO CUTS	(COMP & ETCH)
A78-11	TWO CUTS	(ETCH SIDE)
A88-11	TWO CUTS	(COMP. SIDE)
A91-11	TWO CUTS	(ETCH SIDE)
A61-15	ONE CUTS	(COMP. SIDE)
A25-1	ONE CUT	(ETCH SIDE)

CUT ALL ETCH LEADING TO A25-1 ONE CUT (ETCH SIDE)

B. CUT BOTH ETCH TO FEEDTHROUGH BETWEEN A68-18 AND A69-1 (ETCH,COMP)

C. CUT ETCH TO FEED THROUGH BETWEEN A52-10 AND A53-9 (COMP SIDE)

D CUT ETCH TO EDGE CONNECTOR FINGER J2-13 (ETCH SIDE) #

E. CUT ETCH TO EDGE CONNECTOR FINGER J2-15 (ETCH SIDE) #

F. CUT ETCH TO EDGE CONNECTOR FINGER **J2-29** **(ETCH SIDE)** **#**

G. CUT ETCH TO EDGE CONNECTOR FINGER **J2-30** **(ETCH SIDE)** **#**

H. CUT ETCH TO A84-1 (COMP SIDE) #

3. ADD JUMPER PER INSTRUCTION

A. ADD JUMPER FROM P2-12 TO A70-9 (ETCH SIDE) #

B. ADD JUMPER FROM P2-13 TO A90-9 (ETCH SIDE) #

C. ADD JUMPER FROM P2-15 TO A91-9 (ETCH SIDE) #

D. ADD JUMPER FROM P2-29 TO A92-9 (ETCH SIDE) #

E. ADD JUMPER FROM P2-30 TO A93-9 (ETCH SIDE) #

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217812 FC

Sheet 2 Of 16

4. ADD JUMPER PER INSTRUCTION

a. A49-11 TO A23-5

A62-11 TO A23-3

A75-11 TO A23-1

A88-11 TO A12-1

A50-11 TO A12-3

A52-11 TO A23-9

A63-11 TO A12-5

A65-11 TO A23-11

A78-11 TO A23-13

A91-11 TO A12-13

A21-15 TO A21-8

A24-13 TO A25-1

A87-15 TO A87-8

A66-11 TO A35-7

A57-1 TO P1-69

A57-2 TO A39-1

A57-3 TO A61-15

A61-5 TO A60-8

A45-4 TO A12-9

A12-8 TO FEED THROUGH BETWEEN A52-10 AND A53-9

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Title

ASSEMBLY, P.W.
3K CRAM

Xerox Corporation
El Segundo, California

XEROX

217812

C

Sheet 3 Of 16

5.0 DRILL HOLE:

a. DRILL HOLE PER FIGURE3.

6.0 MOUNT CABLE ASSEMBLY (2533) AND PLATE ASSEMBLY (218054-001) PER FIG. 1 AND FIG.2.

7.0A ADD WIRE (OSERVE FIGURE 4)

CONDUCTOR 1 TO A83-07	GND	CIRCUIT SIDE
CONDUCTOR 2 TO A84-08	GND	CIRCUIT SIDE
CONDUCTOR 7 TO A84-13	CT8	CIRCUIT SIDE
CONDUCTOR 8 TO A84-14	CT4	CIRCUIT SIDE
CONDUCTOR 9 TO A84-15	CT3	CIRCUIT SIDE
CONDUCTOR 10 TO A84-01	CT1	CIRCUIT SIDE

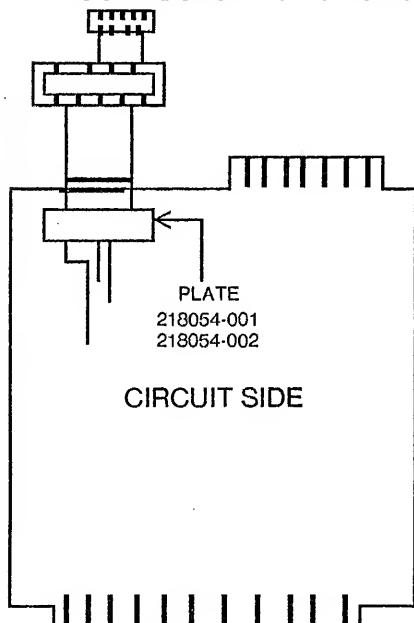


FIG. 1

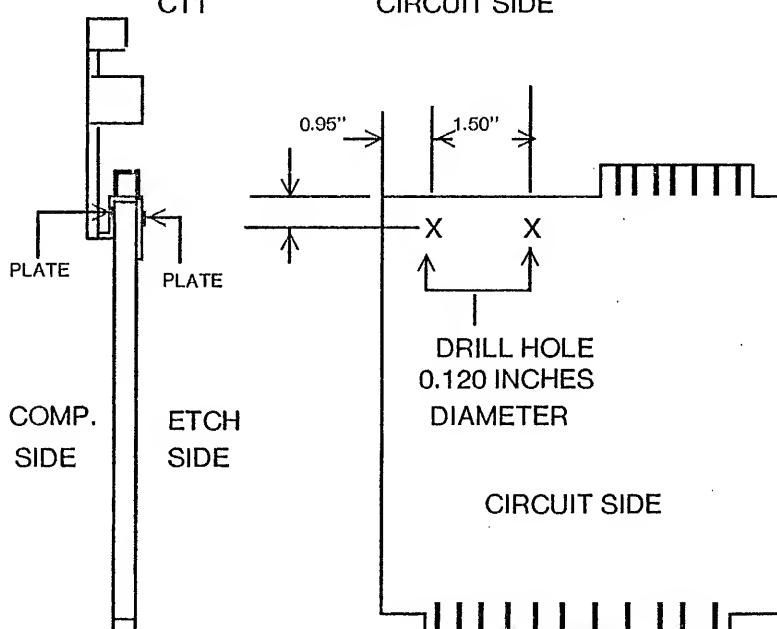


FIG. 2.

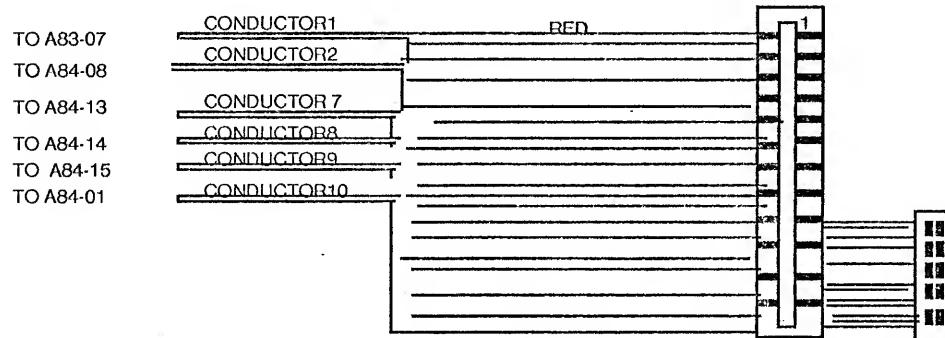


FIG. 4

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Title ASSY, P.W. 3K CRAM		Xerox Corporation El Segundo, California	XEROX
Dwg. No. 217812		Rev. B	
File 3KCRAM04.SIL	Sheet 4	Of 16	

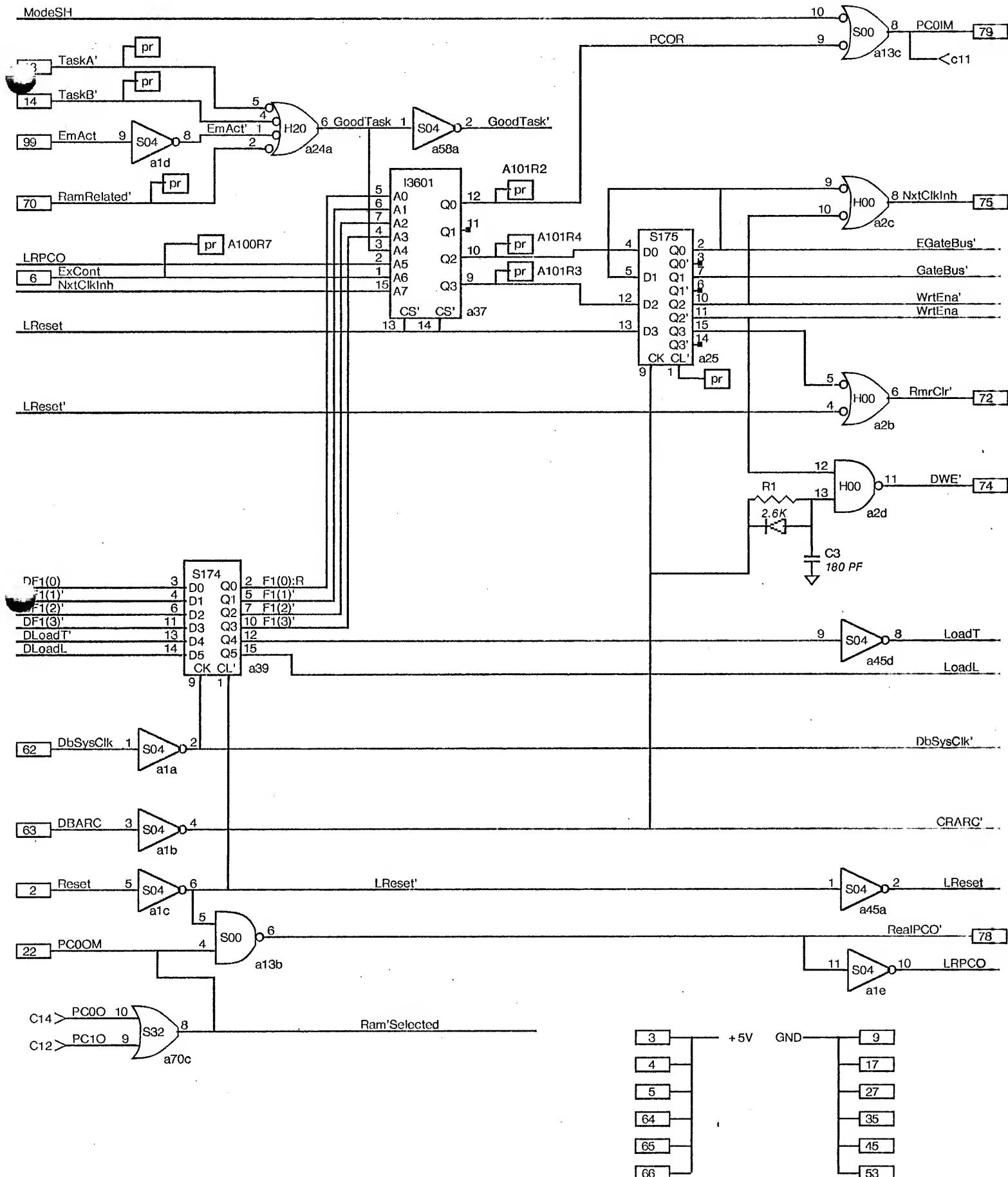
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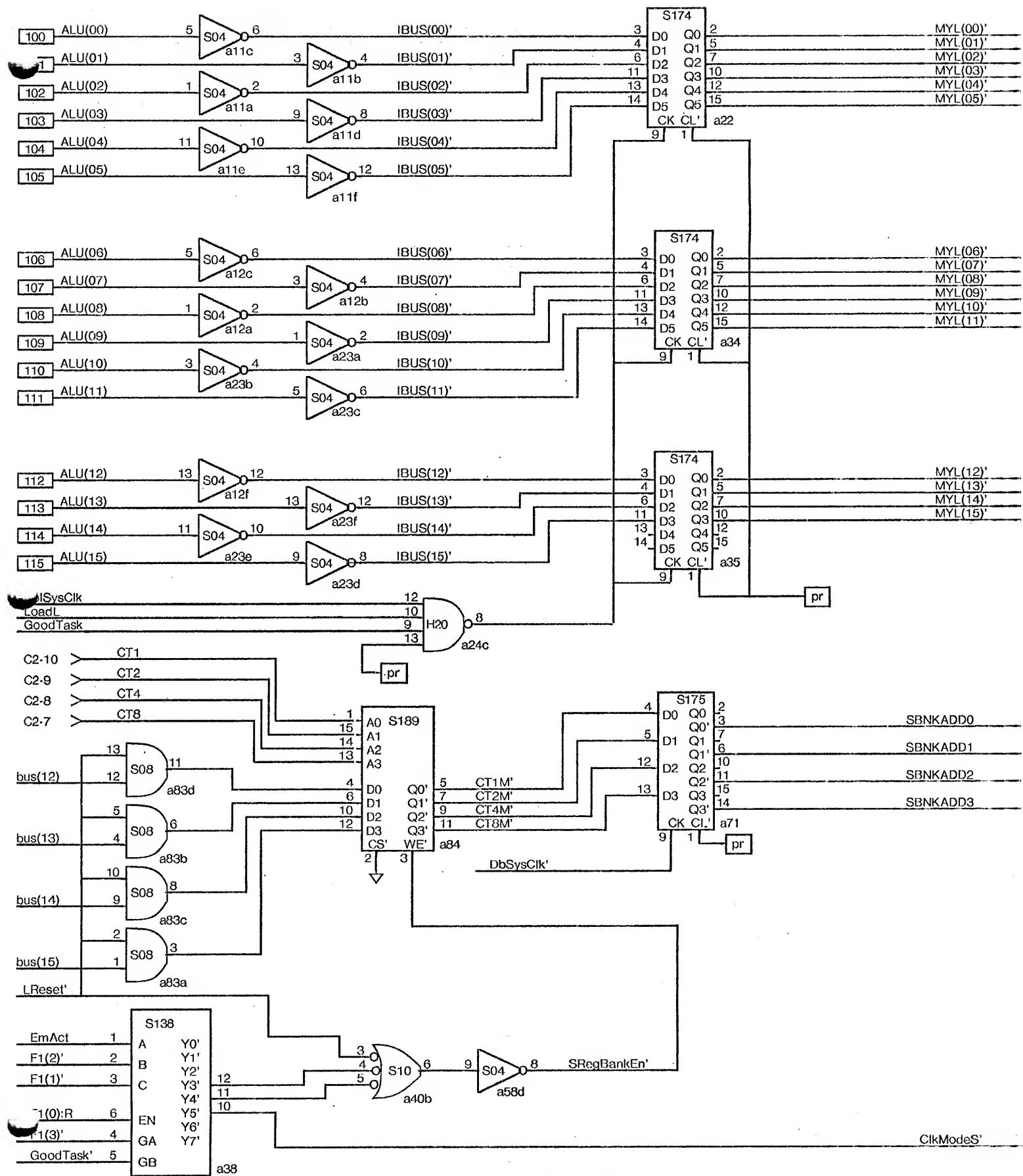
ML	Drawing No. 217812	Rev. B
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Dwg. No.	ASSEMBLY, P. W. 3K CRAM	Model No. 3KCRAM05.SIL	Date	Sheet 5 of 16
Item No.	Drawing Title	Drawing No.	No. Req.	Remarks
1	Board, P. W.	217813	1	
2	Procedure, Test		Ref	
ML	Spec, Assembly	216207	Ref	
4				
5	Microcircuit 74H00		2	A2, 46
6	74S00		2	A13, 57
7	74S04		6	A1, 11, 12, 23, 45, 58
8	74S08		1	A83
9	74S10		1	A40
10	74S03		4	A36, 42, 43, 44
11	74H20		1	A24
12	74H21		1	A27
13	74S30		2	A26, 28
14	74S32		1	A70
15	74S38		4	A3, 4, 5, 6
16	7438		4	A7, 8, 9, 10
17	74S138		1	A38
18	74S153		1	A59
19	74S157		8	A18, 19, 20, 21, 48, 61, 74, 87
20	74166		2	A72, 85
21	74S174		5	A22, 29, 34, 35, 39
22	74S175		7	A25, 41, 47, 60, 71, 73, 86
23	74S189		1	A84
24	74298		4	A30, 31, 32, 33
25	F93422 FAIRCHILD		4	A14, 15, 16, 17
26	82S126		1	A37
27	Microcircuit 2147-3 INTEL		32	A49 THRU 56
				A62 THRU 69
				A75 THRU 82
				A88 THRU 95

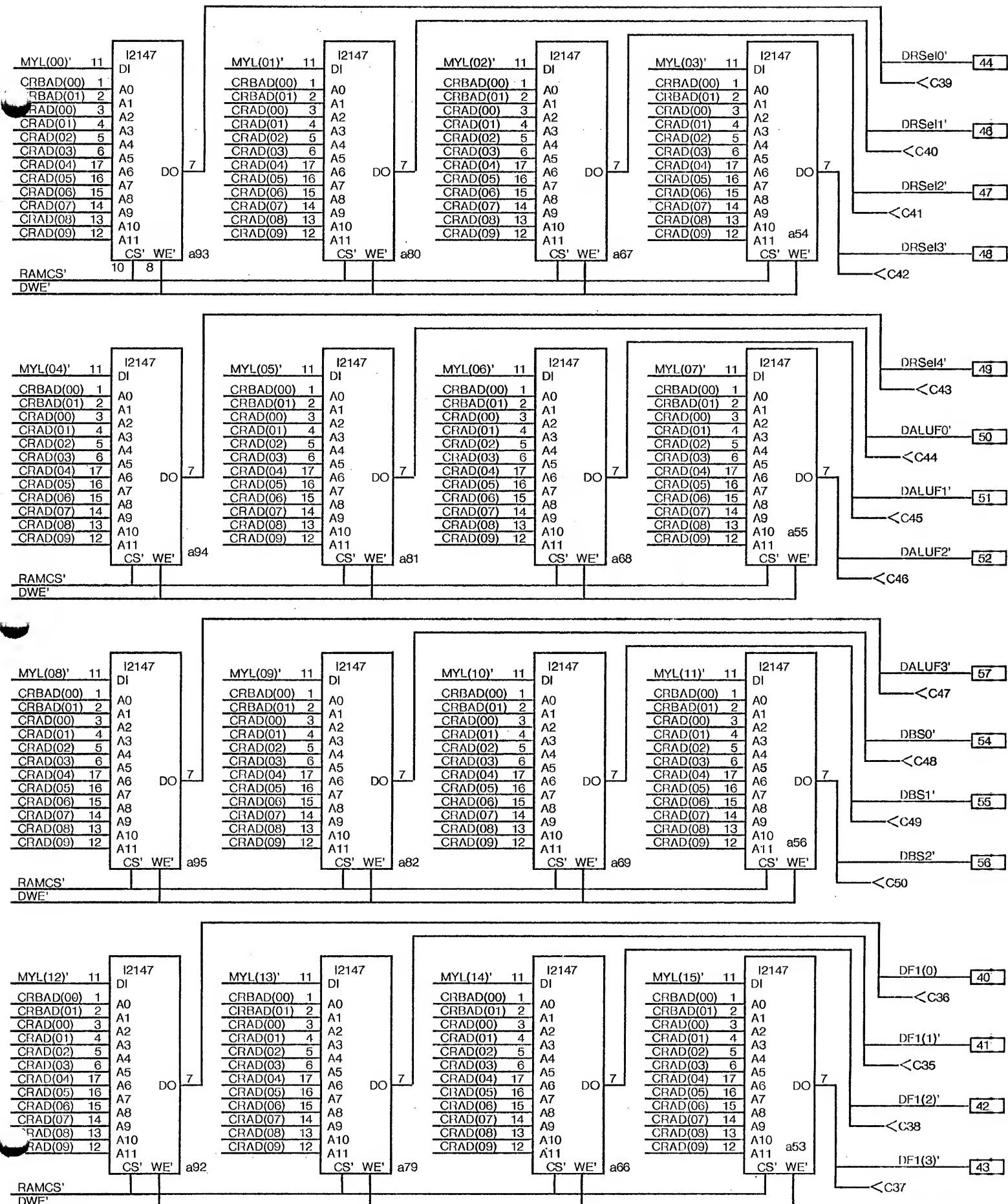
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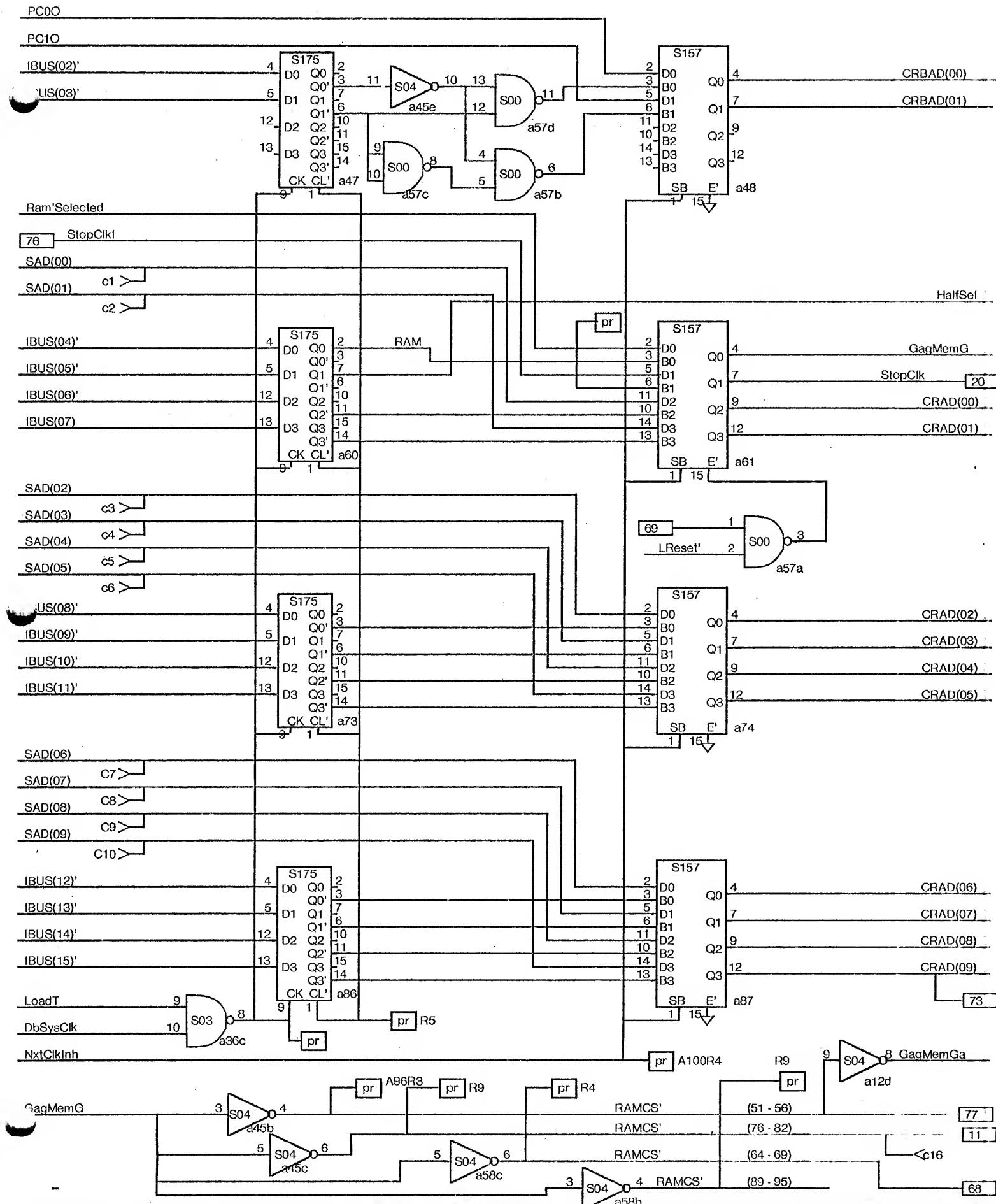
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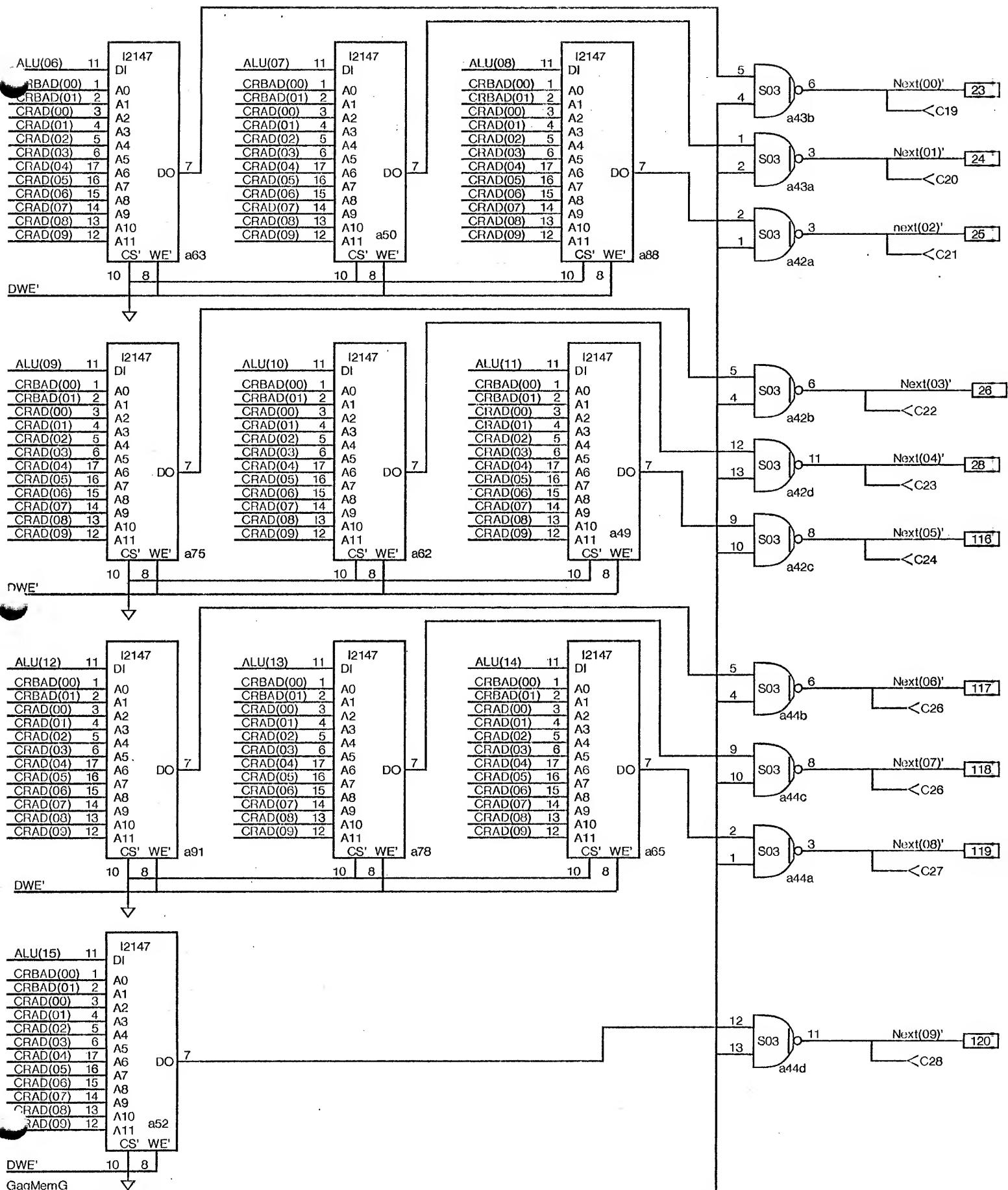


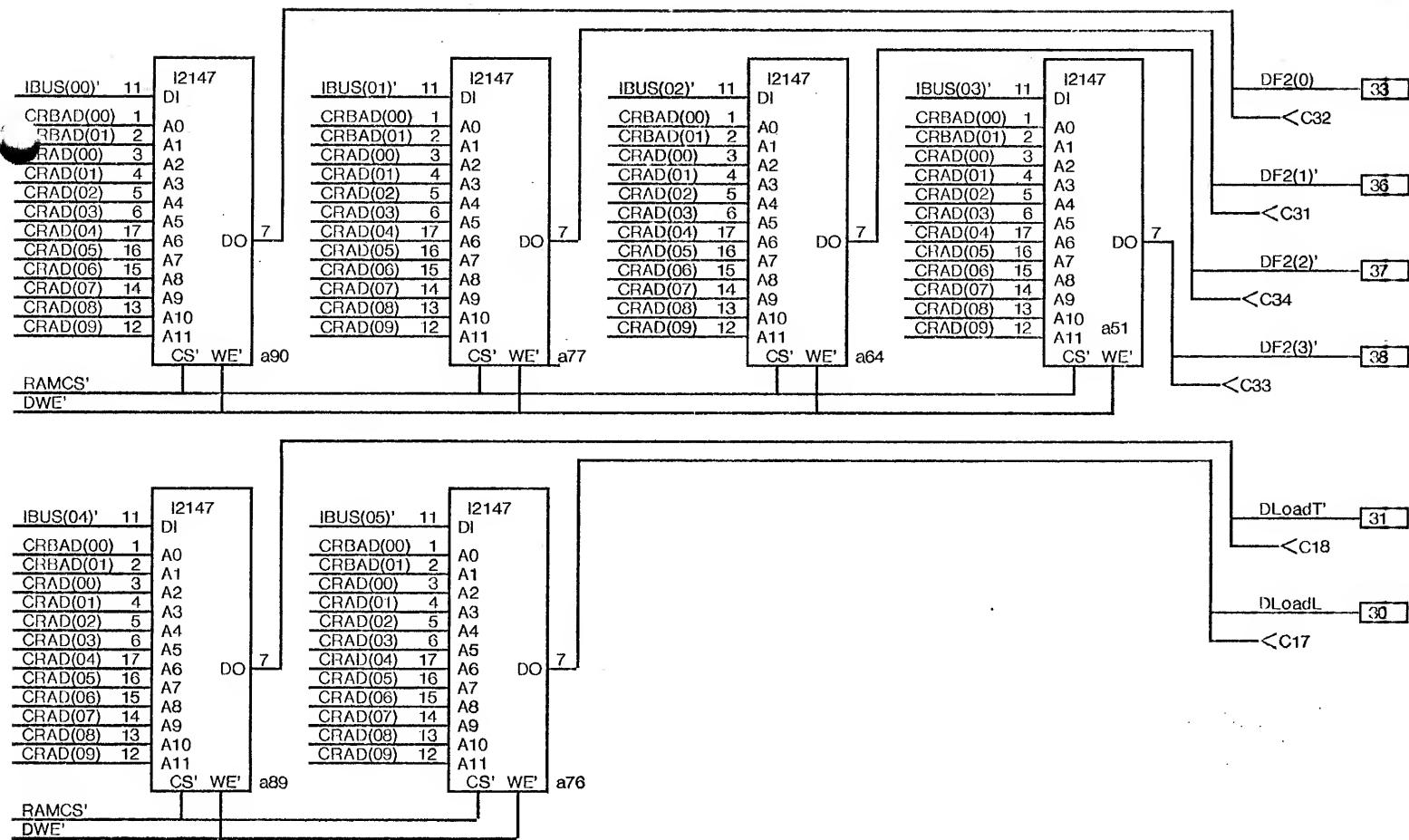


XEROX ED	Project 3K CRAM	ALU INTERFACE TASK CONTROL	File 3KCRAM09.SIL	Designer ALBERT PAE	Rev B	Date 2/21/79	Page 8
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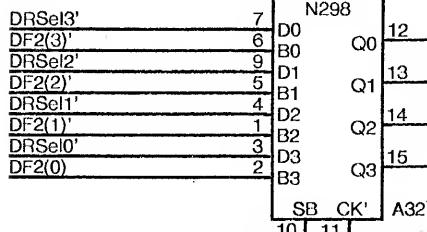




XEROX ED	Project 3K CRAM	4K RAM	File 3KCRAM13.SIL	Designer ALBERT PAE	Rev B	Date 2/17/79	Page 12
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LREF'

GateBus'

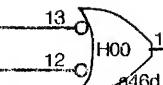
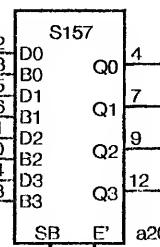


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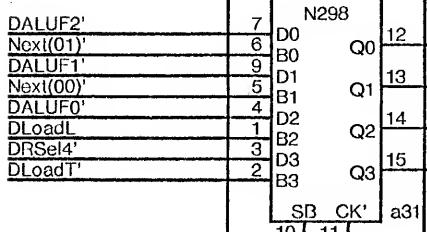
MYL(02)'

MYL(03)'



pr

BUS(00) 80
BUS(01) 81
BUS(02) 82
BUS(03) 83

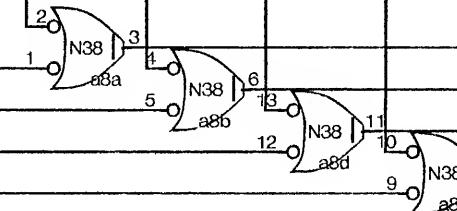
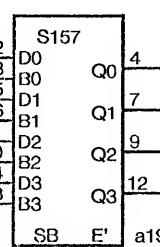


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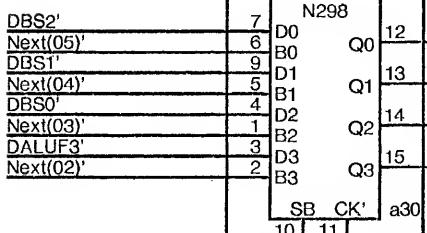
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MYL(06)'

MYL(07)'



BUS(04) 84
BUS(05) 85
BUS(06) 86
BUS(07) 87

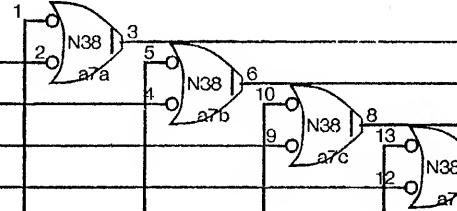
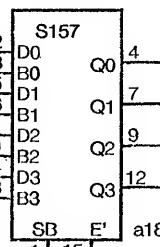


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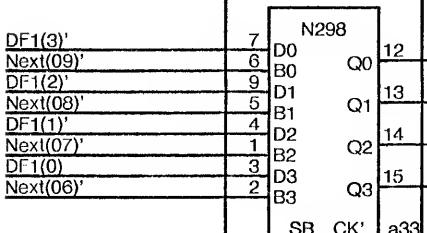
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MYL(10)'

MYL(11)'



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BUS(09) 89
BUS(10) 90
1BUS(11) 91

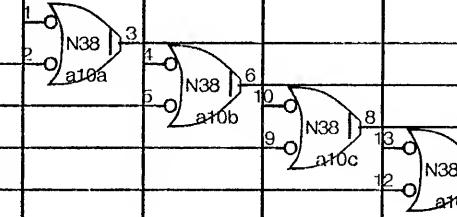
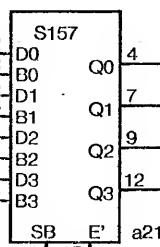


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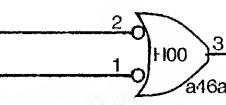
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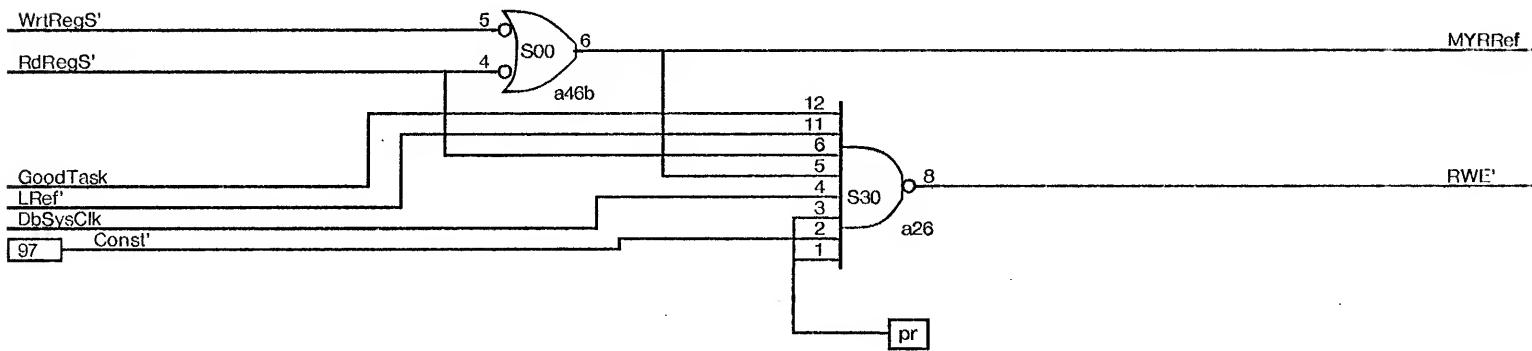
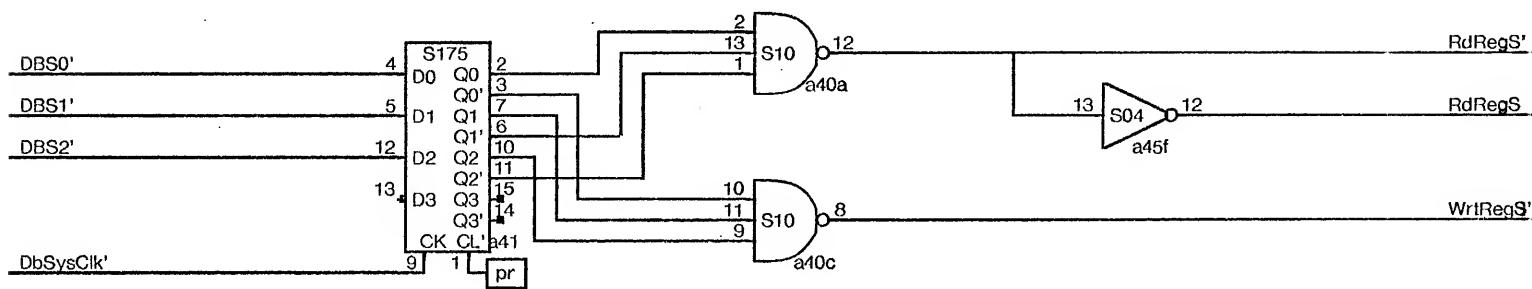
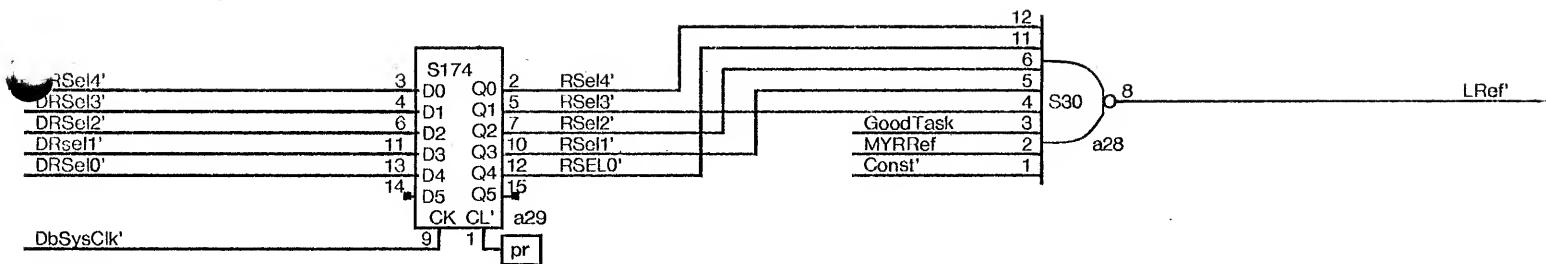


BUS(12) 92
BUS(13) 93
BUS(14) 94
1BUS(15) 95

GateBus'



pr



RdRegS
LRef'
Const'
GoodTask

